

CLAIMS

What is claimed:

1. A gasket comprising:

a base sheet of substantially contiguous metal material having at least one aperture bounded by an edge of said base sheet;

one or more coined angles formed at said edge of said base sheet;

an elastomeric material disposed on said one or more coined angles and said edge of said base sheet; and

wherein said one or more coined angles increase a surface area of said base sheet exposed to said elastomeric material, thereby increasing bonding strength between said base sheet and said elastomeric material.
2. A gasket according to Claim 1, wherein said one or more coined angles includes a texture to further increase the bonding strength between said base sheet and said elastomeric material.
3. A gasket according to Claim 1, wherein said elastomeric material disposed on said one or more coined angles forms a sealing bead.
4. A gasket according to Claim 1, wherein said base sheet is substantially thin.
5. A gasket according to Claim 4, wherein said base sheet has a thickness of approximately 1.0 mm.
6. A gasket according to Claim 1, wherein said coined angles extend radially inwardly from said edge and are integrally joined to said base sheet.
7. A gasket according to Claim 1, wherein said base sheet is generally planar.
8. A gasket according to Claim 1, wherein said elastomeric material comprises silicone rubber.

9. A gasket according to Claim 1, wherein said coined angles are generally symmetric about an axis, A, of said base sheet.
10. A method of manufacturing a gasket comprising the steps of:
forming one or more coined angles at an edge of a base sheet of substantially contiguous metal material;
disposing an elastomeric material on the one or more coined angles and on the edge of the base sheet;
whereby the one or more coined angles increase a surface area of the base sheet exposed to the elastomeric material, thereby increasing bonding strength between the base sheet and the elastomeric material.
11. A method of manufacturing a gasket according to Claim 10, further comprising the step of applying a texture to an outer surface of the one or more coined angles.